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S/N 09/587,939

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: PHOMMACHANH Examiner: T. TA
Serial No.: 09/587,939 Group Art Unit: 2833
Filed: JUNE 6, 2000 Docket No.: 2316.1107USC1
Title: JACK INCLUDING CROSSTALK COMPENSATION FOR PRINTED
CIRCUIT BOARD

CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231 on January 18, 2002.

HP Patwave Cycles
Patricia Cygan

TERMINAL DISCLAIMER TO OBVIATE
A DOUBLE PATENTING REJECTION

Commissioner for Patents
Washington, D.C. 20231

Dear Sir:

Petitioner, ADC Telecommunications, Inc., a corporation organized and existing under the laws of the State of Minnesota and having its primary place of business at 13625 Technology Drive, Eden Prairie, Minnesota 55344-2252, in the state of Minnesota represents that it is the owner of the entire right, title and interest in U.S. Patent Application Serial No. 09/587,939, filed on June 6, 2000 and entitled JACK INCLUDING CROSSTALK COMPENSATION FOR PRINTED CIRCUIT BOARD, by virtue of our assignment recorded at Reel 010298, Frame(s) 0964.

Petitioner, ADC Telecommunication, Inc., hereby disclaims, except as provided below, the terminal part of the statutory term of any patent granted on the above-identified application, which would extend beyond the expiration date of the full statutory term of U.S. Patent No. 6,089,923 and hereby agrees that any patent so granted on the above-identified application shall be enforceable only for and during such period that the legal title to said patent shall be the same as the legal title to U.S. Patent No. 6,089,923, this agreement to run with any patent granted on the above-identified application and to be binding upon the grantee, its successors, or assigns.

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In making the above disclaimer, Petitioner does not disclaim the terminal part of any patent granted on the above-identified application that would extend to the full statutory term as presently shortened by any terminal disclaimer of United States Patent No. 6,089,923, in the event that any such issued patent: expires for failure to pay a maintenance fee, is held unenforceable, is found invalid, is statutorily disclaimed in whole or terminally disclaimed under 37 CFR 1.321(a), has all claims cancelled by a reexamination certification, or is otherwise terminated prior to the expiration of its full statutory term as presently shortened by any terminal disclaimer, except for the separation of legal title stated above.

For submissions on behalf of an organization (e.g. corporation, partnership, university, government agency, etc.), the undersigned (Applicant's attorney) is empowered to act on behalf of the organization.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

MERCHANT & GOULD P.C.
P.O. Box 2903
Minneapolis, Minnesota 55402-0903
(612) 332-5300

Date: January 18, 2002

Natalie D. Kadievitch
Natalie D. Kadievitch
Reg. No. 34,196
NDK:PSTpmc

**TERMINAL DISCLAIMER
APPROVED**

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Deborah Perry-Leeper
Paralegal Specialist
Technology Center 2800

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THE STATEMENT BELOW IS FOR OFFICE USE ONLY

In accordance with the decision granting the petition filed on _____, _____, this terminal disclaimer is accepted. The period of patent lapse specified above has been accepted as equivalent to _____ months.

Petitions Examiner





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UNITED STATES DEPARTMENT OF COMMERCE
Patent and Trademark Office
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Washington, D.C. 20231

JANUARY 06, 2000

PTAS

MERCHANT & GOULD P.C.
STEVEN C. BRUESS
3100 NORWEST CENTER
90 SOUTH SEVENTH STREET
MINNEAPOLIS, MN 55402-4131



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UNITED STATES PATENT AND TRADEMARK OFFICE
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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/14/1999

REEL/FRAME: 010298/0964
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
PHOMMACHANH, CHANSY

DOC DATE: 09/08/1999

ASSIGNEE:
ADC TELECOMMUNICATIONS, INC.
12501 WHITEWATER DRIVE
MINNETONKA, MINNESOTA 55343

SERIAL NUMBER: 09378105
PATENT NUMBER:

FILING DATE: 08/20/1999
ISSUE DATE:

SHIRLIE SIMON, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

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2000

FORM PTO-1595
(Rev. 6-93)
OMB No. 0651-0011 (exp. 4/94)
M&G-2316.1107US01



10-14-1999



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Patent and Trademark Office

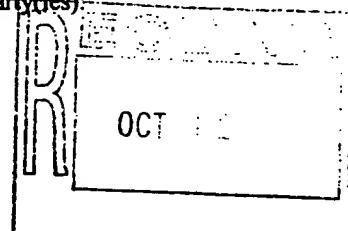
To the Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

1. Name of conveying party(ies):

Chansy Phommachanh

2. Name and address of receiving party(ies):

ADC Telecommunications, Inc.
12501 Whitewater Drive
Minnetonka, Minnesota 55343



Additional name(s) of conveying party(ies) attached? Yes No

Additional name(s) & address(es) attached? Yes No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other:

Execution Date:

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s)

B. Patent No.(s)

(09/378,105, filed August 20, 1999)

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

6. Total number of applications and patents involved: 1

Name: Steven C. Bruess
Address: Merchant & Gould P.C.
3100 Norwest Center
90 South Seventh Street
Minneapolis, MN 55402-4131

7. Total fee (37 CFR 3.41): \$40.00

Enclosed
 Authorized to be charged to deposit account

8. Please charge any additional fees or credit any overpayments to our Deposit account number: 13-2725

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9. Statement and signature:

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Steven C. Bruess

Name of Person Signing

Signature

October 6, 1999

Date

Total number of pages including cover sheet, attachments, and document: 3

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Washington, D.C. 20231

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(10/14/1999 BNGUYEN 00000044 09378105
01 FC:581 40.00 0P)

ASSIGNMENT

WHEREAS, I, Chansy Phommachanh, residing at 1224 East Shakopee, Apartment 132, Shakopee, Minnesota 55379, made certain new and useful inventions and improvements for which I filed an application for Letters Patent of the United States on August 20, 1999, which is entitled **JACK INCLUDING CROSSTALK COMPENSATION FOR PRINTED CIRCUIT BOARD**, Attorney Docket No. 2316.1107US01.

AND WHEREAS, ADC Telecommunications, Inc., a corporation organized and existing under and by virtue of the laws of the State of Minnesota, and having an office and place of business at 12501 Whitewater Drive, Minnetonka, Minnesota 55343 (hereinafter "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefor;

NOW THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar and other good and valuable considerations, the receipt and sufficiency whereof is hereby acknowledged, I have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the application, all divisions, continuations, or renewals thereof, all Letters Patent which may be granted therefrom, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed in any foreign countries for Letters Patent on the inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted therefrom; and I do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letters Patent for the aforesaid inventions and improvements to the Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the Assignee, its successors and assigns.

AND, for the consideration aforesaid, I do hereby agree that I and my executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the improvements, inventions, applications, Letters Patent,

rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore I covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me and that full right to convey the same as herein expressed is possessed by me.

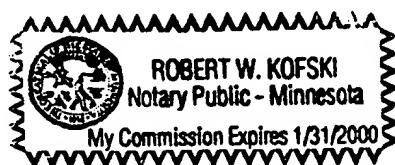
IN TESTIMONY WHEREOF, I have hereunto set my hand this 8th day of
September, 1999.

Chansy Phommachanh
Chansy Phommachanh

STATE OF MINNESOTA)
) ss.
COUNTY OF SCOTT)

On this 8th day of SEPT., 1999, before me personally appeared Chansy Phommachanh to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]



Robert W. Kofski
Notary Public